Matter No.: 11692-006US1

Applicant(s): Klaus Cichutek et al. GENE TRANSFER IN HUMAN LYMPHOCYTES USING

RETROVIRAL SCFV CELL TARGETING

1/5

7A5-scFv

SNV-env Leader 1 TOURCONCTUTURACIONAGRANGET CUTTORCHACCHACHAGA ATC GRO TOT CITC ACC NAC CITC GEN TOC 70 71 GCT GAG GGT ANA GTT GAC CAG GCG AGC ANA ATC CTA ATT CTC CTT GTG GCT TGG TGG GGG 130 AI WAN WAS GEV DO Q A S E I L I L V A W W G 131 TIT GGG ACC ACT GCC GAA GIT TCG ACT GCC CGA GCG GCC CAG GCC GAG GC 191 AMS CTG CAG CAG TCA GGG GCT GAG CTG GTG AGG CCT GCC GTC TCA GTG AMG ATT TCC TCC 250
50 K L Q Q S G A B L V R P G V S V K I S C 69 251 AMG GGT TOT GGC TAC ACA TTC ACT GAT TAT GGT ATG AGC TGG GTG AMA CAG AGT CAT GCA 310 G S G Y T Y T D Y G K S W Y X Q S K A BILL AND AGT CTA CHE TOO ATT GOA CTT ATT AGT ACT THE TAT GOT CAT CCT AGT THE AND CHE 370 90 K S L H W Y G L I S T Y Y G D P S Y 371 AGG TTC AAG GGC AAG GCC ACA ATG ACT GTA GAC AAA TCC TCC AAC ACA GCC TAT TTG GAA 430 110 R F K G K A T K T 431 CTT GCC AGA CTG ACA TCT GAG GAT TCT GCC ATT TAT TAT TGT GCA AGA TCG GAT GCT AAT 490 ARLTSEDSAITYCARSEGE 149 491 TAC GGG TAT TAC TAT GCT TTG GAC TAC TGG GGC CAA GGC ACT ACG GTC ACC GTC TCA 550 551 GGT GGA GGC GGT TCA GGC GGA GGT GGC TCT GGC GGT GGC GGA TCG GAT ATC GAG CTC ACT 610 170 C G G G S G G G S G G G S D X B A T 611 CAS TOT COA TOT TOT TTG GOT GOG TOT CIA GOG CAS AGG GOD ACC ATA TOO TGC AGA GOO 670 SPSSLAVSLGQRATIS 671 AGT GAA AGT GTT GAT AGT TAT GGC GAT AGT TITT ATG CAC TGG TAT CAG CAG AMA CCA GGA 730 210 S R S V D S T G D S F R R T Q Q 731 CAG CCA CCC ANA CTC CTC ATC TAT CCT GCA TCC ANC CTA GAA TCT GCA GTC CCT GCC AGG 790 230 Q P P K L L I Y K A S R L E S G V P A 791 TTC ACT CCC ACT CCC TCT CAC TCA CAC TTC ACT CTC ACC ATC CAT CCT GTG CAC CAA CAA CAT 850 SGSGSBDF 851 GAT GOT GCA GTG TAT TAC TGT CTG CDA NOT ATG GAA GAT CCG TAC ACG TTC GGA GGG GGG 910 270 D A A V Y Y C L Q S H B D F Y Y F 230 T X L B L X B A A S G S G G G S G G 971 GOT TET GOT GOT GOT TET GOT GOT GOT GOT TET GOC GCC AGC CCA GTC CAG TIT ATC 1830 Matter No.: 11692-006US1

Applicant(s): Klaus Cichutek et al. GENE TRANSFER IN HUMAN LYMPHOCYTES USING

RETROVIRAL SCFV CELL TARGETING

2/5

K6-scFv

SNV-env Leader ATG CAC NOT CITC ACC AAC CITC CGA TCC M D C L T R L R S 28 GCT GAG GGT ANA GTT GAC CAG GCG AGC ANA ATC CTA AGT CTC CTT GTG GCT TGG CGG 10 A E G K V D Q A S K I L I L 88 TITT GGG ACC ACT GGC GAA GIT TOG ACT GCC GGA GGG GGG GGG GGG GGG ATG GGC GAG GTC GTTAEVSTARAA 148 AME CITE CAR CAR TOA GOO ACT CHA CIT GIT AME COT GOO COT TOA GIT AMI CITE TOT TOO 207 50 K L Q E S G T E L V E P G A S V N L S 208 AME OUT TOT GOO THE ACE THE ACE THE THE ATE CAR THE THE AME CAR AGE COT GOA 267 X X F X S X W M R W L K Q R P 268 CAA GGC CTT GAG TGG ATC GGA GAG ATT GAT CCT GTT GAT AGT TAX ACT AAC TAC AAT CAA 327 SCOCTEMICELDS 328 RAC TTC AAG GGC AAG GCC ACA CTG ACT GTA GAC AAG TCC TCC ACC ACA GTC TAC ATG CAC 387 388 CTC AGC AGC CTG ACA TOT GAG GAG TOT GCG GTC TAT TAC TGT GCA AGA AAG GGC TAT GCT. 447 LION F K G R A T L 130 L S S L T S E D S A V Z T C A R K G Y A 448 ATC CAC TAC TOO GOC CAA GOO ACC AAC GTC ACC GTC TCC TCA GOT GOA TOC GOT TCA GOC 507 IMCOCIAAIA 508 COA COT COC TOT COC COT COC COA TOS CAC ATO CAC CTC ACT CAC TOA COA ATO ATO 567 189 G G S G C G S D I E L T 568 TOT GOA TOT COA GOO GAG AAG GTO ACC ATG ACC TOC ACT GOT ACC TOA ACT ATA ACT THE 209 ASPGERVIMTCSASS 628 ATC CAC TOS TAC CAS CAS AAS CCA GCC ACC TCC CCC AAA ACA TCC ATT TAT GAC ACA TCC 687
210 M H W T Q Q K P G T S P K R W I Y D T S 229 688 AND CITE GOT TOT GOT GOT COO TIC MOT GOD AND GOD YOU GOD AND TOT THE TOT 747 748 CTC CCA ATC AGC AGC ATG CAG CCT CAA CAT CCT CCC ACT TAT TAC TOC CAT CAG CCG ACT 807 250 L P I S S H E A R D A A T T Y C R Q R S 269 808 ACT TAC COA TOO ACC TTC GOT GOA GOO ACC AAC CTC GAA BTA AAA CGG GOG GOA TCG 867 270 S Y P W T F G G G T R L Z I R B 290 G S G G G S

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Applicant(s): Klaus Cichutek et al.
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3/5

7B2-scFv

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4/5

7E4-scFv

SNV-env Leader 1 ATE CAC TET CTC ACC AAC CTC CGA TCC CCT CAG CCT ANA CTT CAC CAG CCG ACC ANA ATC IM D C L T H L R S A R G K V D Q A S K I 61 CTA ATT CTC CTT GTG GCT TGG GCG TTT GGG ACC ACT GCC GAA GTT TCG ACT GCC CGA 120 21 L I L L V A W W G F G T T A R V S T A R 40

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Fig. 4

Matter No.: 11692-006US1 Page
Applicant(s): Klaus Cichutek et al.
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6C3-scFv

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Fig. 5